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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/575,741	04/10/2006	Wilhelm Kraemer	27392/29382	2550
4743 7590 05/12/2008 MARSHALL, GERSTEIN & BORUN LLP 233 S. WACKER DRIVE, SUITE 6300 SEARS TOWER			EXAMINER	
			SOHN, SEUNG C	
CHICAGO, IL 60606			ART UNIT	PAPER NUMBER
			2878	
			MAIL DATE	DELIVERY MODE
			05/12/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)		
	10/575,741	KRAEMER, WILHELM		
Office Action Summary	Examiner	Art Unit		
	SEUNG C. SOHN	2878		
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address		
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	l. lely filed the mailing date of this communication. (35 U.S.C. § 133).		
Status				
Responsive to communication(s) filed on <u>07 Feee</u> This action is FINAL . 2b)⊠ This 3)□ Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro			
Disposition of Claims				
4) ☐ Claim(s) 1,2 and 5-15 is/are pending in the app 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) 12-15 is/are allowed. 6) ☐ Claim(s) 1,2,5,7 and 9-11 is/are rejected. 7) ☐ Claim(s) 6 and 8 is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or Application Papers 9) ☐ The specification is objected to by the Examine 10) ☐ The drawing(s) filed on 07 February 2008 is/are	vn from consideration. r election requirement. r.	d to by the Examiner.		
Applicant may not request that any objection to the or Replacement drawing sheet(s) including the correction of the oath or declaration is objected to by the Ex	ion is required if the drawing(s) is obj	ected to. See 37 CFR 1.121(d).		
Priority under 35 U.S.C. § 119				
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 				
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	te		

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DETAILED ACTION

Drawings

1. The drawings are objected to because the arrow from control device (6) to the sensor (8) in Fig. 1 should be from sensor (8) to control device (6). Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Specification

2. The disclosure is objected to because of the following informalities:

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On Page 10, line 24, "output signals 16" should be changed to – input signals 16

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The disclosure lacks section headings.

Appropriate correction is required.

The following guidelines illustrate the preferred layout for the specification of a utility application. These guidelines are suggested for the applicant's use.

Arrangement of the Specification

As provided in 37 CFR 1.77(b), the specification of a utility application should include the following sections in order. **Each of the lettered items should appear in upper case, without underlining or bold type, as a section heading**. If no text follows the section heading, the phrase "Not Applicable" should follow the section heading:

- (a) TITLE OF THE INVENTION.
- (b) CROSS-REFERENCE TO RELATED APPLICATIONS.
- (c) STATEMENT REGARDING FEDERALLY SPONSORED RESEARCH OR DEVELOPMENT.
- (d) THE NAMES OF THE PARTIES TO A JOINT RESEARCH AGREEMENT.
- (e) INCORPORATION-BY-REFERENCE OF MATERIAL SUBMITTED ON A COMPACT DISC.
- (f) BACKGROUND OF THE INVENTION.
 - (1) Field of the Invention.
 - (2) Description of Related Art including information disclosed under 37 CFR 1.97 and 1.98.
- (g) BRIEF SUMMARY OF THE INVENTION.
- (h) BRIEF DESCRIPTION OF THE SEVERAL VIEWS OF THE DRAWING(S).
- (i) DETAILED DESCRIPTION OF THE INVENTION.
- (j) CLAIM OR CLAIMS (commencing on a separate sheet).
- (k) ABSTRACT OF THE DISCLOSURE (commencing on a separate sheet).
- (I) SEQUENCE LISTING (See MPEP § 2424 and 37 CFR 1.821-1.825. A "Sequence Listing" is required on paper if the application discloses a nucleotide or amino acid sequence as defined in 37 CFR 1.821(a) and if the required "Sequence Listing" is not submitted as an electronic document on compact disc).

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Claim Rejections - 35 USC § 112

3. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

4. Claim 7 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Regarding claim 7, it is unclear as to how the wavelength of the light color is optimized to be as energetic as possible. Clarification is required.

Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. Claims 1-2, 5 and 9-11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Freeman et al. (Patent No. US 5,214,275) in view of Lovato et al. (Patent No. US 7,208,888 B2).

Regarding claims 1, 5 and 9-11, Freeman et al. shows in Fig. 1 an electronic microwave circuit (10) comprising GaAs field-effect transistors (12) integrated onto a semiconductor substrate, for switching electronic high frequency input signals and at least one light source (L) for illuminating the GaAs field-effect transistors (12). Freeman et al. does not disclose that at least one of the intensity of the light source and the color

of the light source may be changed during operation, and that a control device controls or regulates the intensity and/or the color of the light source dependent upon the temperature of the field-effect transistors. Lovato et al. discloses Fig. 4 that at least one of the intensity of the light source (10) and the color of the light source may be changed during operation, and that a control device (11) controls or regulates the intensity and/or the color of the light source using a light sensor (27) (Col. 4, lines 22-29). It would have been obvious to a person having ordinary skill in the art to provide the light sensor and the control circuit of Lovato et al. in the device of Freeman et al. for the purpose of measuring temperature of the device.

Regarding claim 2, Freeman et al. shows discloses that the light source (12) is able to illuminate in different colors simultaneously (the white color is a combination of a multiple colors).

Allowable Subject Matter

- 7. **Claims 6-8 are objected** to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 8. The following is a statement of reasons for the indication of allowable subject matter:

Claim 6 is not disclosed or made obvious by the prior art of record, specifically in combination with the limitation of "the control device controls or regulates the intensity and/or color of the light source in such a manner that the switching times of the field-

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effect transistors remain constant over an entire range of values of measurement variables used that occur in operation."

9. Claims 12- 15 are allowed.

10. The following is an examiner's statement of reasons for allowance:

Claim 12 is not disclosed or made obvious by the prior art of record, specifically in combination with the limitation of "a calibrating input via which the high frequency signals altered by the microwave circuit are fed again to the calibrating device, with a control unit, for controlling the light source and the switching processes of the microwave circuit via a calibrating connection, and of the signal generator."

Claim 14 is not disclosed or made obvious by the prior art of record, specifically in combination with the limitation of "storing the value combinations or of the value tuples of the changed and detected values of the influencing variables and of the measurement variables; evaluating the value combinations or value tuples; and transferring the evaluation results to the microwave circuit."

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to SEUNG C. SOHN whose telephone number is (571)272-4123. The examiner can normally be reached on Mon-Thur, 7:30 AM -6 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, GEORGIA Y. EPPS can be reached on 571-272-2328. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/SEUNG C SOHN/ Examiner, Art Unit 2878